

ABSTRACT OF THE DISCLOSURE

A method for selecting at least one catalyst from a catalyst library on the basis of the reactivity thereof in a chemical conversion process includes: (a) testing the catalytic activity of a first catalyst from said catalyst library with respect to a reaction medium containing, as the compounds to be converted, at least one reactivity probe having a labeling system and including at least one reaction unit capable of reacting in said chemical conversion; (b) analyzing the reaction medium after said catalytic test for the purpose of qualitatively and/or quantitatively characterizing the resulting compounds; (c) repeating steps (a) and (b) for at least one other catalyst in said library; and (d) comparing the analysis results for each catalyst in order to characterize at least one catalyst having the required reactivity in said chemical conversion.